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Supervisor	Eva Ortega-Retuerta
Supervisor page	https://lomic.obs-banyuls.fr/fr/personnel/personnel_lomic/pages_personnelles/ortega.html
Host Institution	Centre National de la Recherche Scientifique (CNRS) https://www.cnrs.fr/en
Research Lab	Laboratory of Microbial Oceanography https://lomic.obs-banyuls.fr/en/home-2.html
Research Team	

Project Title

Linkage between organic matter and microbial metabolisms across marine environments

Project Description

In the group we are interested in how dissolved organic composition and microbial diversity, activities, and metabolism are linked. Possible projets would be: 1) Link gene expression (metagenomics) and DOM composition (mass spectrometry) in the Arctic 2) Looking at the effect of phosphorus on microbial DOM transformations and the microbial carbon pump, or 3) The description of DOM composition and their effects on prokaryotic metabolisms, including nitrogen fixation, in the Indian Ocean

Keywords

dissolved organic matter, microbes, ocean

Description of the Host Research Lab

The Laboratory of Microbial Oceanography (LOMIC, UMR7621) was created within the Observatoire Océanologique de Banyuls in January 2010.
The LOMIC brings together expertise in the fields of marine biogeochemistry, microbial ecology, biodiversity, physiology, OMICs and genetics of model organism to investigate processes carried out by the ocean microbiome in elemental cycles. Ongoing carbon cycle research emphasizes the identification of important routes of carbon fluxes through bacterial communities, with the long-term goal of improving predictions of the fate of carbon in the context of a changing ocean. The study of the functions and diversity of marine microorganisms can also offer interesting applications in the field of biotechnology, for example the production of high value-added molecules or the possibility of using certain microbial functions to degrade pollutants present in the environment. This line of applied research is an integral part of the studies carried out at LOMIC.

To submit your application, please send an email with the required documents to msca-pf@sorbonne-universite.fr